

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P292179

Luminaire Tested: **22GR-LD5-28-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2747.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

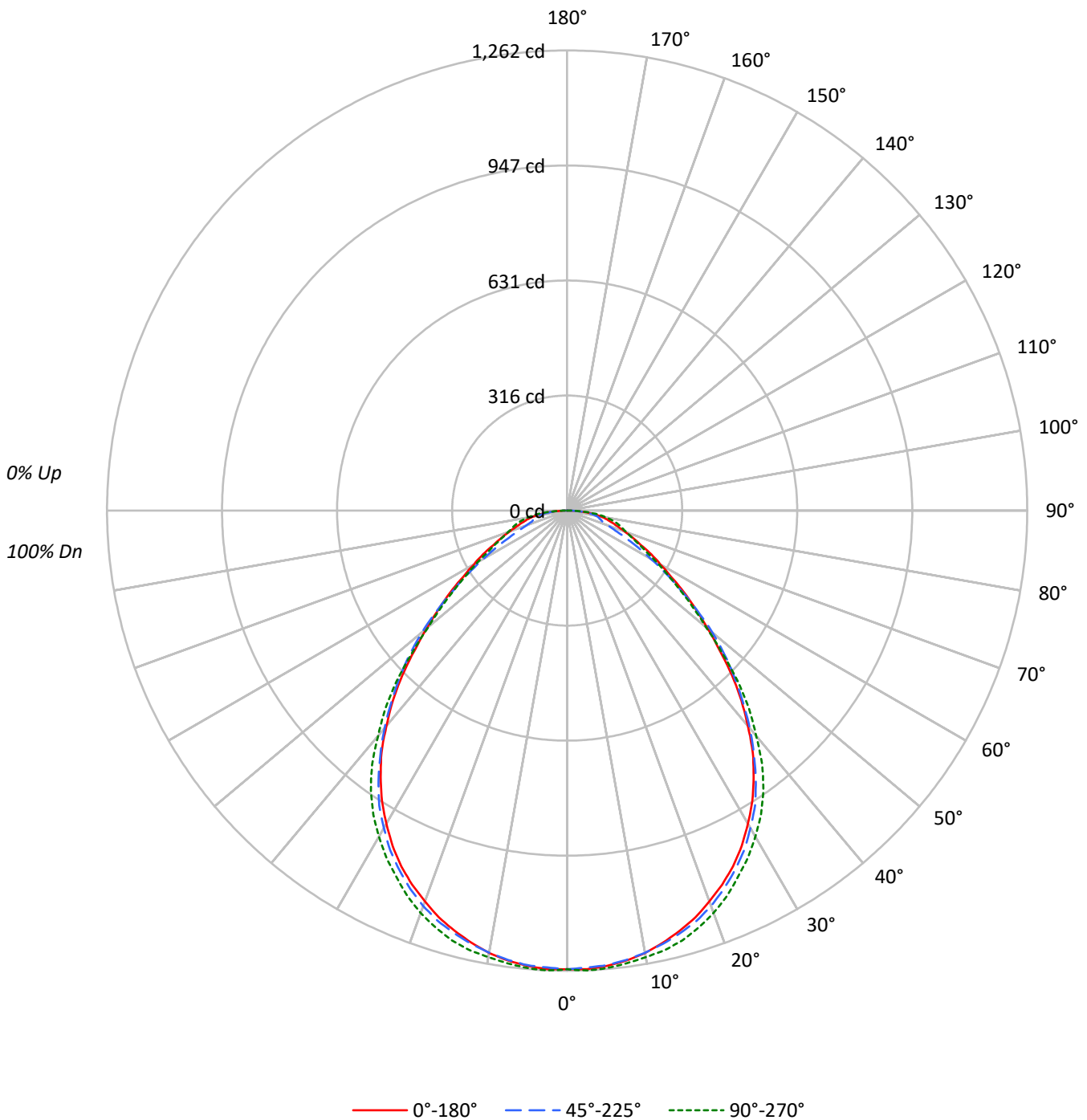
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3385	3385	3385
5°	3386	3381	3402
10°	3366	3364	3397
15°	3323	3341	3400
20°	3266	3304	3363
25°	3196	3232	3291
30°	3081	3123	3208
35°	2929	2963	3083
40°	2708	2737	2834
45°	2433	2476	2516
50°	2103	2178	2082
55°	1835	1787	1764
60°	1589	1431	1527
65°	1421	1123	1372
70°	1318	931	1353
75°	1316	984	1502
80°	1457	1238	1694
85°	1519	1343	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	4.3
10°-20°	339.1	12.3
20°-30°	501.5	18.3
30°-40°	565.9	20.6
40°-50°	498.8	18.2
50°-60°	342.2	12.5
60°-70°	201.9	7.4
70°-80°	126.0	4.6
80°-90°	52.5	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	959.6	34.9
0°-40°	1525.5	55.5
0°-60°	2366.5	86.1
0°-90°	2747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1254	1251	1252	1256	1259	119
15°	1193	1194	1199	1214	1220	336
25°	1076	1080	1089	1103	1108	494
35°	892	899	902	924	938	556
45°	639	642	651	655	661	491
55°	391	382	381	368	376	351
65°	223	196	176	204	215	225
75°	127	114	95	132	144	136
85°	49	46	44	57	62	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.0	1258.0	1258.0	1258.0	1258.0
2.5°	1258.7	1255.5	1254.2	1259.3	1262.5
5°	1253.6	1251.0	1251.6	1256.1	1259.3
7.5°	1244.6	1242.7	1242.7	1249.1	1252.3
10°	1231.8	1231.2	1231.2	1238.8	1243.3
12.5°	1213.9	1214.6	1217.1	1227.3	1235.0
15°	1192.8	1194.1	1199.2	1213.9	1220.3
17.5°	1169.8	1169.8	1180.0	1191.5	1199.2
20°	1140.4	1142.3	1153.8	1166.6	1174.3
22.5°	1110.4	1113.6	1123.1	1137.8	1144.9
25°	1076.5	1080.3	1088.6	1102.7	1108.4
27.5°	1036.8	1042.0	1050.9	1061.1	1073.3
30°	991.5	999.1	1004.9	1019.0	1032.4
32.5°	945.4	952.5	958.9	973.6	988.9
35°	891.7	899.4	902.0	923.7	938.4
37.5°	836.8	840.0	841.2	863.0	879.0
40°	770.9	777.3	779.2	796.5	806.7
42.5°	707.6	710.2	714.0	726.8	739.0
45°	639.2	642.4	650.7	654.6	661.0
47.5°	567.6	577.2	586.8	574.7	575.3
50°	502.4	510.1	520.3	497.3	497.3
52.5°	444.3	448.1	448.7	429.6	433.4
55°	391.2	381.6	381.0	368.2	375.9
57.5°	338.2	325.4	320.9	317.1	326.0
60°	295.3	272.3	265.9	271.7	283.8
62.5°	260.2	230.8	218.6	233.3	244.2
65°	223.1	196.2	176.4	203.9	215.4
67.5°	194.3	168.8	143.2	182.2	190.5
70°	167.5	147.7	118.3	165.6	172.0
72.5°	145.7	130.4	102.3	149.6	157.3
75°	126.6	113.8	94.6	132.3	144.5
77.5°	111.2	97.2	88.2	114.4	129.1
80°	94.0	79.9	79.9	95.9	109.3
82.5°	74.2	62.6	64.6	78.0	87.6
85°	49.2	46.0	43.5	56.9	62.0
87.5°	24.9	25.6	23.0	29.4	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)